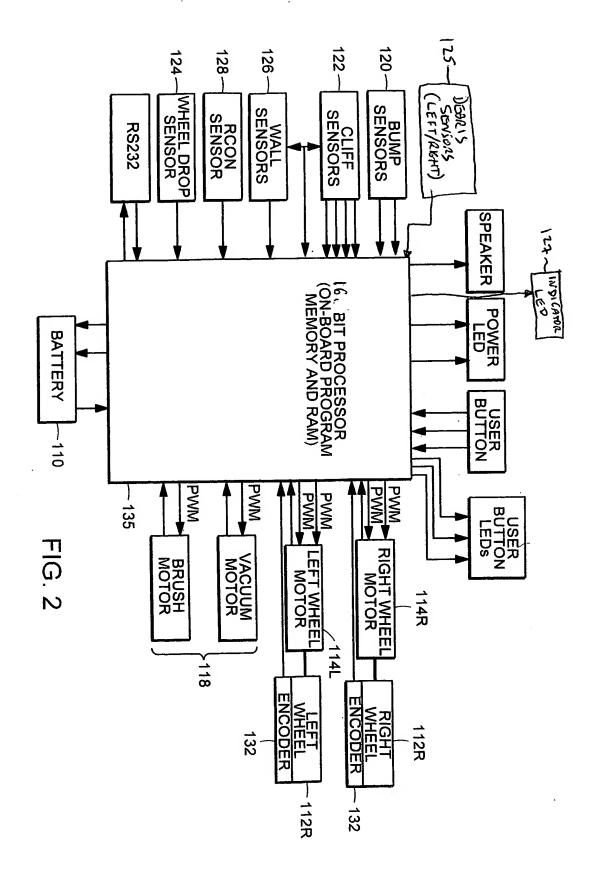
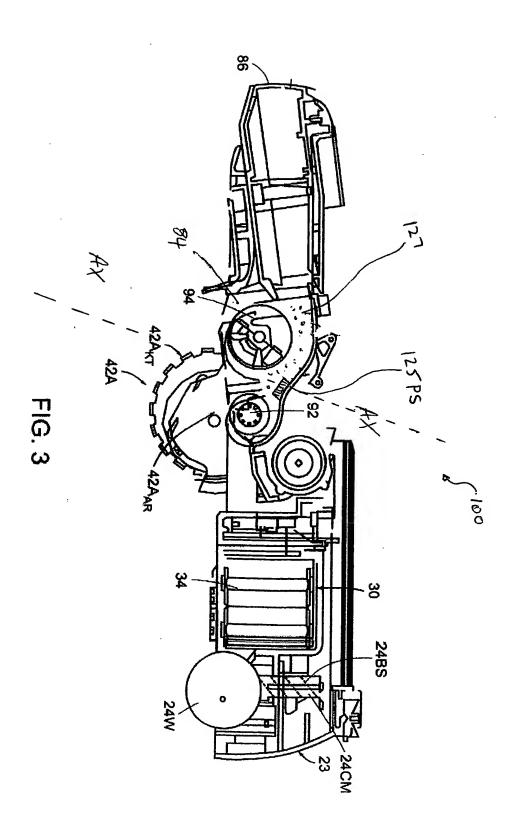


FIG. 1





-METAL SHIELD, 410 -DIRT SENSOR PC BOARD, 408

ELASTOMER PAD, 404

PLASTIC DIRT SENSOR CAP, YOK

-PIEZO DISK, 402

-ELAS OMER GROMMET, 414 MOUNTING SCREW, 412.

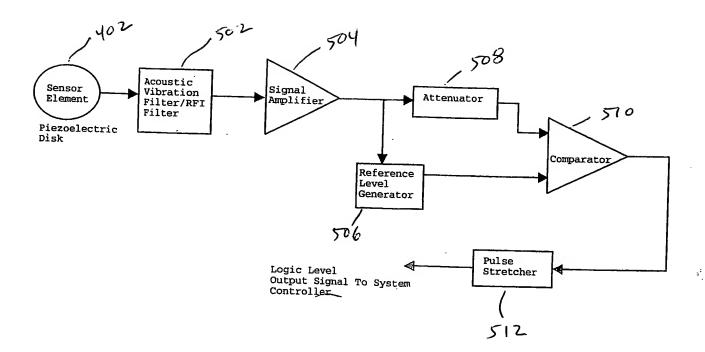
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12595

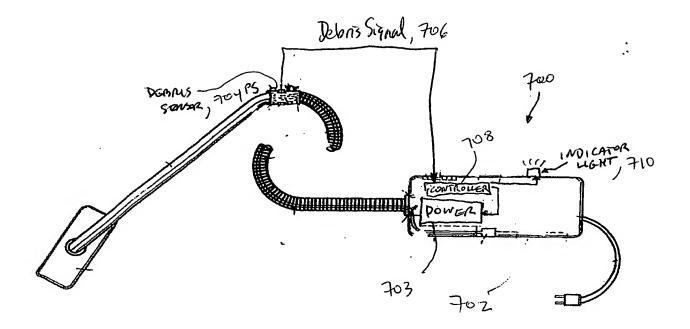
4.9.1

F16.5

125



F16-6



F16.7

Detect Left and Right Debris Signals Representative of Instantaneous Debris Strikes/Presence/Quantity/Volume/Direction of/Vector to Debris or Debris Field, 802

- Select Operational Mode or Pattern of Movement (e.g., spot mode)
 Based on Debris Signal Values, 804
- Select Direction of Movement
 Based on Differential (Left/Right) Signal Values
 (e.g., Steering Toward Side With More Debris), 806
- Generate User Perceptible Signal (e.g., Illuminate an LED or light), 808
- → Vary or Control Operational Condition (Power/Other), 810
- → Calculate Debris Gradient and Control Movement, 812